

TEST REPORT (시 험 성 적 서)

신청기관 (인) : 금호석유화학

APPLICANT : Kumho Petrochemical

주소 (한글) : 울산광역시 남구 처용로 260-257 ADDRESS (ENGL.) : 260-257, Cheoyong-ro, Nam-gu,

Ulsan, Korea

발행면수 (PAGE):1 of 5

시험성적서 번호 (REPORT NO.):RT23R-S0331-002-K

발행일자 (DATE): 2023. 01. 26.

시료 명세 :시료에 대한 상세한 정보는 아래와 같음 (SAMPLE DESCRIPTION) (The following submitted sample(s) said to be)

제품명/형식 : SAN 300 H (NAME/TYPE OF PRODUCT) (SAN 300 H)

재질 : SAN (NAME OF MATERIAL) (SAN)

시료고유번호 : RT23R-S0331-002 (SAMPLE ID NO.) (RT23R-S0331-002)

제품 생산자/공급자 : 금호석유화학 (MANUFACTURER/VENDOR) (Kumho Petrochemical)

시료접수일자 : 2023. 01. 13. (SAMPLE RECEIVED) (Jan. 13, 2023)

시험일자 : 2023. 01. 13. ~ 2023. 01. 26. (TESTING DATE) : Jan. 13, 2023 ~ Jan. 26, 2023)

시험방법 : 이 시험성적서의 다음 페이지 첨부

(TEST METHOD) (Please see the following page)

시험결과 : 이 시험성적서의 다음 페이지 첨부

(TEST RESULT) (Please see the following page)

비고 (Notes): 1. 이 시험성적서는 제시된 시료 및 시료명으로 시험한 결과로서 유사 대상시료에 적용할 수 없음.

(The test results presented in this report refer only to the object tested.)

2. 이 시험성적서는 승인없이 복사 사용을 금함.

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승인자 (Approved by)

장준용/기술책임자

2688

(Jade Jang / Lab. Technical Manager)

권한자 (Authorized by)

바

(Bo Park / Lab. General Manager)

Authenticity check

Intertek Testing Services Korea Ltd.

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시험성적서 번호 (REPORT NO.): RT23R-S0331-002-K 발행일자 (DATE): 2023. 01. 26.

시료고유번호 (SAMPLE ID NO.) : RT23R-S0331-002 시료명 (SAMPLE DESCRIPTION) : SAN 300 H

(SAN 300 H)

시험항목	<i>.</i> 단위	분석방법	검출한계	시험결과
(TEST ITEM)	(UNIT)	(TEST METHOD)	(MDL)	(RESULT)
카드뮴 (Cadmium, Cd)	mg/kg	With reference to IEC 62321-5 Edition 1.0 : 2013,	0.5	N.D.
납 (Lead, Pb)	mg/kg	by acid digestion and determined by ICP-OES	5	N.D.
수은 (Mercury, Hg)	mg/kg	With reference to IEC 62321-4 : 2013/AMD1 : 2017, by acid digestion and determined by ICP-OES	2	N.D.
6가 크롬 (Hexavalent Chromium, Cr ⁶⁺)	mg/kg	With reference to IEC 62321-7-2 Edition 1.0 : 2017, by alkaline/toluene digestion and determined by UV-VIS Spectrophotometer	8	N.D.
폴리브롬화비페닐 (Polybrominated Biphen	yls, PBBs)			
모노브로모비페닐 (MonoBB)	mg/kg		5	N.D.
다이브로모비페닐 (DiBB)	mg/kg		5	N.D.
트라이브로모비페닐 (TriBB)	mg/kg		5	N.D.
테트라브로모비페닐 (TertaBB)	mg/kg	With reference to	5	N.D.
펜타브로모비페닐 (PentaBB)	mg/kg	IEC 62321-6 Edition 1.0 : 2015,	5	N.D.
헥사브로모비페닐 (HexaBB)	mg/kg	by solvent extraction and	5	N.D.
헵타브로모비페닐 (HeptaBB)	mg/kg	determined by GC/MS	5	N.D.
옥타브로모비페닐 (OctaBB)	mg/kg		5	N.D.
노나브로모비페닐 (NonaBB)	mg/kg		5	N.D.
데카브로모비페닐 (DecaBB)	mg/kg		5	N.D.
폴리브롬화디페닐에테르 (Polybrominated	Diphenyl Ether	rs, PBDEs)		
모노브로모디페닐에테르 (MonoBDE)	mg/kg		5	N.D.
다이브로모디페닐에테르 (DiBDE)	mg/kg		5	N.D.
트라이브로모디페닐에테르 (TriBDE)	mg/kg		5	N.D.
테트라브로모디페닐에테르 (TetraBDE)	mg/kg	With reference to	5	N.D.
펜타브로모디페닐에테르 (PentaBDE)	mg/kg	IEC 62321-6 Edition 1.0 : 2015,	5	N.D.
헥사브로모디페닐에테르 (HexaBDE)	mg/kg	by solvent extraction and	5	N.D.
헵타브로모디페닐에테르 (HeptaBDE)	mg/kg	determined by GC/MS	5	N.D.
옥타브로모디페닐에테르 (OctaBDE)	mg/kg	1	5	N.D.
노나브로모디페닐에테르 (NonaBDE)	mg/kg	1	5	N.D.
데카브로모디페닐에테르 (DecaBDE)	mg/kg	1	5	N.D.

Tested by: Jooyeon Lee, Chano Kim, Hayan Park

Notes: mg/kg = ppm = parts per million (함량 표시 : 백만분의 일)

< = Less than (결과 값 이하)

N.D. = Not detected (< MDL, 미검출 – 검출한계 이하)

MDL = Method detection limit (검출한계)

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발행일자 (DATE): 2023. 01. 26.

시험성적서 <u>번호 (REPORT NO.)</u>: RT23R-S0331-002-K

시료고유번호 (SAMPLE ID NO.) : RT23R-S0331-002 시료명 (SAMPLE DESCRIPTION) : SAN 300 H

(SAN 300 H)

시험항목	CAS번호	단위	분석방법	검출한계	시험결과
(TEST ITEM)	(CAS NO.)	(UNIT)	(TEST METHOD)	(MDL)	(RESULT)
디부틸프탈레이트 (Dibutyl phthalate, DBP)	84-74-2	mg/kg	With reference to IEC 62321-8 Edition 1.0 : 2017,	50	N.D.
디에틸혝실프탈레이트 (Di-(2-ethylhexyl) phthalate, DEHP)	117-81-7	mg/kg		50	N.D.
벤질부틸프탈레이트 (Benzyl butyl phthalate, BBP)	85-68-7	mg/kg	by solvent extraction and determined by GC/MS	50	N.D.
디이소부틸프탈레이트 (Diisobutyl phthalate, DIBP)	84-69-5	mg/kg	- GC/Wi3	50	N.D.

Tested by : Hayan Park

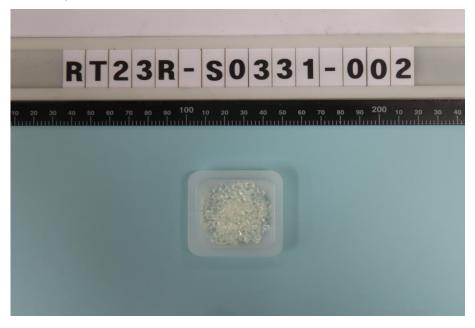
Notes: mg/kg = ppm = parts per million (함량 표시 : 백만분의 일)

< = Less than (결과 값 이하)

N.D. = Not detected (< MDL, 미검출 - 검출한계 이하)

MDL = Method detection limit (검출한계)

* 시료 접수 시 시료 상태 : (View of sample as received)



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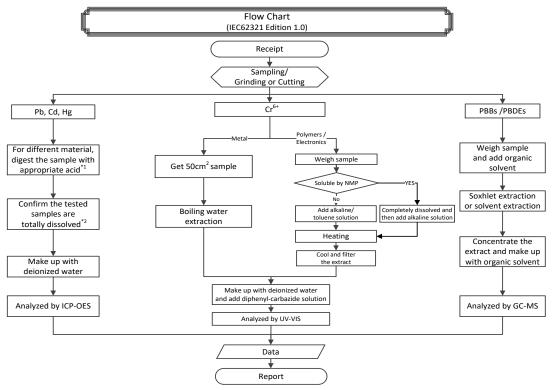
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시료고유번호 (SAMPLE ID NO.) : RT23R-S0331-002 시료명 (SAMPLE DESCRIPTION) : SAN 300 H

(SAN 300 H)



Remarks:
*1: List of appropriate acid:

. List of appropriate acid .					
	Material	Acid added for digestion			
	Polymers	HNO₃, HCl, HF, H ₂ O ₂ , H3BO₃			
	Metals	HNO₃, HCI, HF			
	Electronics	HNO ₃ , HCl, H ₂ O ₂ , HBF ₄			

^{*2 :} The samples were dissolved totally by pre-conditioning method according to above flow chart.

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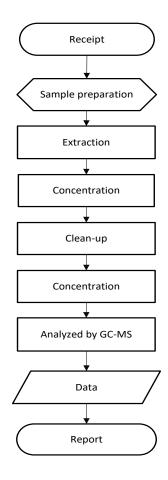
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시험성적서 번호 (REPORT NO.): RT23R-S0331-002-K 시료고유번호 (SAMPLE ID NO.): RT23R-S0331-002

시료명 (SAMPLE DESCRIPTION) : SAN 300 H

(SAN 300 H)

Flow Chart (Phthalates)



***** End of Report *****

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